ATYMIN, Ye. V.

AUTHOR:

Mordvintsev, L.A.

TITLE:

Technology of Welding, Soldering and Brazing (Tekhnologiya svarki i payki); Practical Manual for Designers and Technologists (Prakticheskoye posoblye

dlya konstruktorov i tekhnologov)

PUB. DATA: Gosudarstvennoye izdatel'stvo oboronnoy promyshlennosti,

Moscow, 1957, 150 pp., 8,700 copies

Pugachev, A.I., Candidate of Technical Sciences; Ed. in Chief: Latynin, Ye. V., Engineer; Ed. of the Publ. House: Kuznetsova, A.G.; Tech.Ed.: Pukhlikova, N.A. EDITORS:

Call Nr: AF 1157027

PURPOSE: The monograph is intended for designers and technologists

without special training in welding methods but whose work

calls for design and manufacture of welded structures.

The monograph describes the most widely employed methods of COVERAGE:

welding, brazing and soldering of metals, their advantages and shortcomings, and their fields of application. A concise description is given of preparatory operations,

selection of a method and the technology of welding various

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Technology of Welding, Soldering and Brazing (cont)

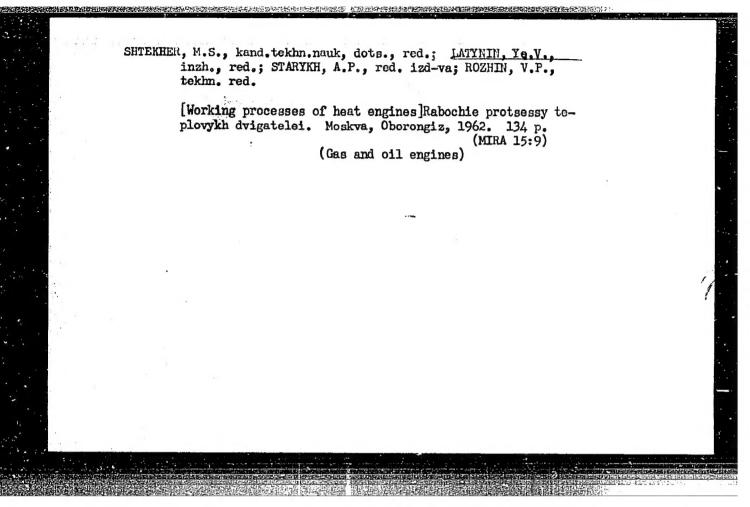
metals and alloys. Brief data on common defects and methods of weld joint quality control are included. With this manual a more intelligent selection of structure types, materials, methods and techniques of welding may be made for the design and manufacture of welded structures. Persons credited with assisting the author are Candidates of Technical Sciences: Verchenko, V.R.; Godin, V.M.; Mordvintseva, A.V.; Petran', I.V.; and Pugachev, A.I. The bibliography contains 34 references of which 33 are Soviet.

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SADOVSKIY, I.N., kand.tekhn.nauk, red.; LâTYNIN, Ye.V., inzh., red.; TUBYANSKAYA, F.G., red.izd-ve; ROZHIN, V.F., tekhn.red.

[Research on optimal rocket trajectories; collection of translated foreign articles] Issledovanie optimal'nykh rezhimov dvizheniia raket; sbornik perevodov inostrannykh statei. Moskva, Gos.izd-vo obor.promyshl., 1959. 292 p. (MIRA 12:9)

(Spece ships) (Rockets (Aeronautics))



KERULIKOV, Vladimir Amireyevich, kand. tekhn. nsuk; 1PFOLITOV, G.M., inzh., retsenzent; LMIKIR, Ye.V., inzh., red.

Grinding of heat-resistant alloys] Shlifovanie zharoproch-hykh splavov. Moskva, Machinostroenie, 1964. 190 p.

(MIRA 17:E)

ACC NR. AP600253		SOURCE CODE:	UR/0286/65/000/02:	/0038/0038
INVENTOR: Latynin	a, A. I.			10
URG: none				<u>a</u>
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	SUBM DATE: 27Sep63/	79.05		

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Latymina, L.A.
USSR/Geophysics - Seismology

FD-1790

Card 1/1

Pub 45-12/18

Author

: Bonchkovskiy, V. F., and Latynina, L. A.

Title

Torsional deformation gauge (deformograph)

Periodical: Izv. AN SSSR, Ser. geofiz. 275-277, May-Jun 1955

Abstract

: The authors describe the principle governing the action of the torsional deformation gauge, developed in 1952 before the Garm expedition of the Geophysical Institute, for measuring and recording slow deformations by means of the transfer of linear displacements of a rod resting on a very thin turning cylinder. The advantages are: sensitivity is up to 0.1-0.01 micron per millimeter of deflection on the recording tape; absence of turning forces which permits prolonged observations on natural

deformations. No references.

Institution: Geophysical Institute, Academy of Sciences USSR

Submitted: August 20, 1954

Latynina, L.A.

49-58-3-14/19

AUTHOR: Latynina, L.A..

TITLE: On the Existence of Convection Currents in the Earth's

Envelope (O sushchestvovanii konvektsionnykh techeniy v

obolochke zemli)

PERIODICAL: Izvestiya Akademii Nauk SSSR, Seriya Geofizicheskaya, 1958, Nr 3, pp 391-397 (USSR)

ABSTRACT: The author first gives a brief resume of the literature, mentioning Holmes (1932), Vening Meinezs (1940 and 1952), Griggs (1939), Jeffreys (1954), Bonchkovskiy (1954) and Magnitskiy (1955). She points out that geophysical knowledge is insufficient at present to resolve the question completely. Heat convection can only take place if the increase of density with depth due to the change in chemical composition does not exceed the decrease of density due to the rise in temperature. Since the magnitude of the temperature coefficient of expansion is small for rocks, this is virtually equivalent to the condition for a homogeneous medium. In actual fact, since we know from seismic data, that the envelope is not homogeneous it seems possible that there may be two convective layers - the lower one inducing currents in the upper by virtue of stresses across the Card 1/4 poundary at a depth of about 900 km. The observed equality

**交替性性现象的原始的特殊的,但**自身各种的原因的是这种的各种,但是是这种人的特殊的,但是这种人的是一种人的,但是是这种人的,但是是这种的**可以是是这种的现象的。** 

49-58-3-14/19

On the Existence of Convection Currents in the Earth's Envelope.

of heat flow in continental and oceanic regions indicates either that heat transfer takes place partly by convection, or that the quantity of radioactive elements per unit area is the same in both regions but is concentrated in the core (under continents and at depths of 100-200 km under oceans). Consideration of convection currents in the envelope starts from the supposition of homogeneity of composition and the possibility of representation as a viscous body. The author's object is to show that the temperature in the Earth is sufficiently high for convection currents to exist - presuming all the other necessary conditions are fulfilled. She starts with the stability criterion defining the Rayleigh number. Taking representative values for the envelope it is found that the temperature drop there for maintenance of equilibrium is about 10C. This is, of course, exceeded in fact, but it may be the constants employed in its derivation are wrong by several orders of magnitude. It is necessary to examine the change of stability with vertical temperature gradient and with kinematic viscosity. The author

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On the Existence of Convection Currents in the Earth's Envelope.

considers the onset of convection between two horizontal planes with usual first order approximations as regards velocity, density, etc. In the first case considered, the vertical temperature gradient depends on the depth with the viscosity constant, whilst in the second the viscosity depends on the depth and the temperature gradient is constant. In both cases, sixth order differential equations are obtained. The first is solved by a variational method. It indicates that the higher the rate of change of temperature in the surface layers and the less the depth at which the temperature change becomes insignificant, the more stable the system. The results obtained show that if the rate of change of temperature with depth decreases exponentially, the allowed temperature difference between the surfaces of the layer increases ten times. In the second case, a particular type of viscosity change with depth is taken in order to facilitate solution of the equation. The solution obtained indicates that the usual Rayleigh formula holds if the viscosity used is averaged over the depth. The temperature increase is calculated to continue only to 500 km. There are 1 figure and 14 references, of which 6 are Russian, Card 3/4 8 English.

49-58-3-14/19

On the Existence of Convection Currents in the Earth's Envelope.

ASSOCIATION: Moscow State University imeni M.V.Lomonosov (Moskovskiy gosudarstvennyy universitet im. M.V.Lomonosova)

SUBMITTED: June 12, 1957.

AVAILABLE: Library of Congress.

Card 4/4

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AUTHOR: Latynina, L.A. SOV/49-58-9-3/14

TITIE: Thermal Convection in the Earth's Envelope (Teplovaya konvektsiya v obolochke zemli)

PERIODICAL: Izvestiya Akademii Nauk SSSR, Seriya Geofizicheskaya,

1958, Nr 9, pp 1085 - 1098 (USSR)

ABSTRACT: The article considers gravitational thermal convection produced in a layer of material by a vertical, superadiabatic temperature gradient. This corresponds roughly

to the state in the Earth's envelope.

A spherical layer of viscous liquid in a radial, gravitational field is considered - the upper boundary being fixed (at the crust) and the lower being free (at the core). This is simplified to the plane parallel case between z = 0 and z = h. The temperature is assumed to increase linearly with depth initially but, at a certain moment, a heat source is distributed through a thin surface layer (the source having a variable, horizontal density). The normal equations for a viscous fluid are employed but it is pointed out that the medium is really pseudo-viscous and, hence, the two cases are not identical in the initial and final stages of convection.

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It is assumed that variation of density with depth can be ignored and also: 1)

$$\rho' = \rho_0 \alpha T \ll \rho_0 ; \qquad (1)$$

the change density, is small compared with  $\mathcal{O}_0$ , the average density; 2)  $\underline{\mathbf{v}}$  the velocity of the material, is sufficiently small for  $(\underline{\mathbf{v}} \text{ grad}) \underline{\mathbf{v}} \ll \sqrt{\nabla^2 \underline{\mathbf{v}}}$ . The temperature and pressure are written in the form:

$$T(x, z, t) = \beta z + \theta(x,z,t), p(x,z,t) = p_0(z) + p'(x,z,t)$$
(2)

where posatisfies the equation:

$$\partial P_0/\partial z = g P_0 (1 - \alpha \beta z)$$
 (3).

The origin of co-ordinates is taken in the surface with the z-axis downwards. The convection equations are given Card2/12

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to the first order approximation (Ref 2) by:

$$\rho_0 \frac{\partial}{\partial t} (u, w) = (0, -\alpha g \theta) - \frac{1}{\rho_0} \left( \frac{\partial}{\partial x}; \frac{\partial}{\partial z} \right) p' +$$

$$+\sqrt{2}(u, w) + \frac{\sqrt{3}}{3}\left(\frac{\partial}{\partial x}, \frac{\partial}{\partial z}\right) \operatorname{div} \underline{v}$$
 (4)

$$-\alpha \frac{\partial}{\partial t} \theta + \text{div } \underline{\mathbf{v}} = 0 \tag{5}$$

$$\left(\frac{\partial \mathbf{t}}{\partial \mathbf{r}} - \mathbf{k} \nabla^2\right) \Theta = -\left[\beta \mathbf{w} + \mathbf{w} \frac{\partial \mathbf{z}}{\partial \theta} + \mathbf{u} \frac{\partial \mathbf{x}}{\partial \theta}\right] + \mathbf{E} + \mathbf{P} \tag{6}$$

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SOV/49-58-9-3/14

where  $\nabla^2 = \frac{\partial^2}{\partial x^2} + \frac{\partial^2}{\partial z^2}$ , P is the density of the

thermal energy sources and E, the dissipative term, is equal to:

 $\frac{c^{b}}{1} \left[ 3 \left( \frac{\partial x}{\partial n} \right)^{2} + \left( \frac{\partial z}{\partial n} + \frac{\partial x}{\partial m} \right)^{2} + 3 \left( \frac{\partial z}{\partial m} \right)^{2} \right]$ 

( C<sub>p</sub> is the thermal capacity and I the mechanical equivalent). The dissipative term depends on second order coefficients but, owing to the magnitude of J, has to be retained.

retained. u and p' are eliminated from Eqs.(4) and (5) to give a differential equation in w and  $\theta$  (7). Dimensionless quantities  $\bar{z}$ ,  $\bar{w}$  and  $\bar{\theta}$  are now introduced. Typical values for the thickness of the layer,  $z_0$ , stationary

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Thermal Convection in the Earth's Envelope

SOV/49-58-9-3/14

convective velocity  $w_0$  and the average temperature  $\theta_0$  are taken to be:  $z_0 = 10^8$  cm,  $w_0 = 10^{-7}$  cm/sec,  $\theta_0 = 10^2$  degrees.

 $\theta_0 = 10^2$  degrees.  $\alpha$  is taken =  $10^{-4} - 10^{-5}$  degree<sup>-1</sup>,  $\gamma = 10^{20} - 10^{22}$  cm<sup>2</sup>/sec,  $\kappa = 10^{-2} - 10^2$  cm<sup>2</sup>/sec,  $\beta = 10^{-5}$  degree/cm,  $g = 10^3$  cm/sec<sup>2</sup>.

Substituting these values in Eqs.(5) - (7), it can be seen that the term: 2

can be ignored in Eq.(5), the dissipative term can be ignored in Eq.(6) and the terms:

 $\frac{9 \text{ t}}{9} \triangle_{5}^{\text{M}} \quad \text{and} \quad \alpha \left( \frac{9 \text{ t}}{9} - \lambda \triangle_{5} \right) \frac{9 \text{ s} 9 \text{ t}}{9 \text{ s} \theta}$ 

can be ignored in Eq.(7). This reduces the basic equations to the forms shown in Eq.s(8), (9) and (10). The

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boundary conditions for z = 0, z = h can be written as: 1)  $\theta = 0$ , 2) u = w = 0 on the fixed surface, 3)  $\partial u/\partial z = 0$  and (to a first approximation) w = 0 on the free surface. The initial conditions are:

$$T(x, z, t = 0) = \beta z$$
;  $\theta(x, z, t = 0) = 0$ .

For times close to t=0, the deviation of the temperature from its initial value is small and non-linear differential Eqs.(8) - (11) can be solved by a series method. For times sufficiently far away from t=0 a numerical method of solution can be applied. An equation (12) is obtained for w with a distribution of sources given by Eq.(13) which is then resolved into a series in:

$$\sin \frac{n\pi}{h}z$$

This gives the equations (14) for w, u and  $\theta$ .

1) The velocity of motion corresponding to the n-th harmonic increases with time if:

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$$\alpha g \beta a^2 h^4 \geqslant k v e_n^6$$

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and goes to a limit, b, if this inequality does not hold. In the simplest case, these correspond to the example considered by Rayleigh.

2) Assuming the conditions (16), it is shown that the first harmonic in the series analysis is/greater importance than the others. Hence, it is assumed that the simple function:

 $P(z) = p_0 \sin \frac{Tr}{h} z.$ 

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will sufficiently indicate the nature of the processes involved.

The time interval under consideration is now divided up into N parts  $(t_0, t_0 + \ell, \text{ etc.})$  and  $\partial \ell / \partial t$  is written as:

 $\frac{\theta_{i+1} - \theta_i}{/}$ 

Gard7/12 giving Eq.(17). The values of the various functions

Thermal Convection in the Earth's Envelope SOV/49-58-9-3/14

present in the equations is now obtained by extrapolation from t<sub>i</sub> to t<sub>i+1</sub>. The super-adiabatic temperature difference is taken to be 1 000°. Various values of the other parameters are taken, (e.g. h = 400, 2 000, 3 000 km; α/ν = 10<sup>-25</sup>, 10<sup>-26</sup>, 10<sup>-27</sup> sec/cm<sup>2</sup>deg; βh = 1 000°; P = 6 x 10<sup>-17</sup> cal/cm<sup>3</sup>sec). The solution obtained indicates the re-distribution of material due to the convection. Figure 1 shows the dependence of temperature on depth for three cases - I - in the centre of the rising stream, III - in the centre of the descending stream and II - on the boundary between the two.

As the motion develops, the higher harmonics in θ and w grow in comparison with the first harmonic (as can be seen from the table). Thus, the main, initial current progressively breaks up into smaller ones. The maximum of the first harmonic can be referred to as the main maximum since it exceeds in value the maximum of all higher harmonics. Hence, one can speak of the maximum

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velocity,  $\mathbf{w}$  . Values of  $\mathbf{w}_{\max}$  are given for h = 3 000, 2 000 and 400 km. Within the limits of the calculation, the equation of a line of flow has the form:

 $\sin \frac{h}{z} \cos \frac{a}{x} = 0$ 

giving the family of curves in Figure 2. The stress does not depend on the value of the viscosity,  $\vee$ , and is proportional to d, g, and h . Maximum values of the stress (which occur on the boundary, mid-way between the ascending and descending streams) are given. The conclusion is reached that the development of the convective process depends on the super-adiabatic vertical gradient rather than on the horizontal change in temperature. At the start, there is a slow increase in velocities and temperature variations followed, after several million years, by rapid changes.
The fixed boundary is now considered in detail. Card9/12 solution of the foregoing equations for stationary

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Thermal Convection in the Earth's Envelope

SOV/49-58-9-3/14

convection (P = 0) is well known. Denoting this solution by W(x, z), the author seeks for a solution of his problem in the form: W(x, z, t) = C(t)W(x, z).

W(x, z) is expressed as a function of sinusoidal and hyperbolic factors and, after substituting in Eq.(12) and for the vertical component of the velocity, w.

As a confirmation of the results obtained, they are compared with the data published by Brooks (Ref 5): decelerated motion. 2) The cycle is approximately smaller cells are formed. 3) An initial velocity of An estimate is finally made of the convective velocities This is done by considering the solution for stationary It is pointed out that a more important source of convection that the mean value of w depends on the square root of

Thermal Convection in the Earth's Envelope SOV/49-58-9-3/14

the heat flow due to transfer of mass. It is concluded that convection in the Earth's envelope due to a horizontal distribution of sources does not produce velocities and stresses exceeding mm/year and 10 dynes/cm². Velocities and stresses in currents due to unequal distribution of temperature with depth reaches cm/year and 10 dynes/cm². The motion due to the supradiabatic, vertical temperature gradient has been shown to have a non-stationary character. The numerical calculations have shown that, if this convection includes most of the envelope, then the velocity of flow ~ 1 m/year and the time from initiation of convection to its greatest development is ~100 million years. If the convection is confined to a narrow layer, the corresponding values are 2 cm/year and a billion years.

There are 2 figures and 6 references, 2 of which are Soviet and 4 English.

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Thermal Convection in the Earth's Envelope

SOV/49-58-9-3/14

ASSOCIATION:

Moskovskiy gosudarstvennyy universitet imeni M.V. Lomonosova (Moscow State University imeni M.V. Lomonosov)

SUBMITTED:

June 12, 1957

Card 12/12

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S/049/62/000/011/005/006 D207/D308

AUTHORS:

Latynina, L.A. and Karmaleyeva, R.M.

TITLE:

First results of the observations made with horizontal extensometers in T'ien-shang

PERIODICAL:

Akademiya nauk SSSR. Izvestiya. Seriya geofizicheskaya, no. 11, 1962, 1574 - 1578

TEXT: The first long extensometers (deformographs) were installed in the USSR in 1961 at the Talgar geophysical station in the region of Alma-Ata. Two extensometers were placed horizontally in a horizontal tunnel 50 m from its entrance; at this location the diurnal temperature variations did not exceed several hundredths of a degree. The extensometers consisted of quartz tube sections joined by Invar unions; one (26 m long) was placed along the north-south direction, the other (4 m long) along the east-west direction. Each was fixed at one end to a concrete platform. The other end was free and it recorded the horizontal displacement of the earth's surface down to 0.2 p. The intention

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First results ...

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was to record the slow motions preceding earthquakes. During the period of observations (November 1961 - June 1962) no earthquakes occurred near the station but the authors found tidal motion superimposed on the background of seasonal variations. From the analysis of this tidal motion the elastic constants of the earth (Love number h and Shid number 1) were determined. It was found that to the 12-hour and 24-hour tidal waves caused by the moon. Acknowledgements are made to Ye.A. Koridalin and I.L. Nersesov for help and advice in this work. There are 3 figures.

ASSOCIATION:

Akademiya nauk SSSR Institut fiziki Zemli (Academy of Sciences USSR Institute of Physics of the Earth)

SUBMITTED:

July 9, 1962

Card 2/2

L 35930-66 EWT(1)/EWP(e)/EWT(m) WH/GW ACC NR: AT6011163 UR/3197/65/000/002/0376/0381 /// SOURCE CODE: AUTHOR: Latynina, L. A.; Karmaleyeva, R. M. BHI ORG: Institute of the Physics of the Earth, AN SSSR (Institut fiziki zemli AN SSSR) TITLE: Measurement of horizontal displacements on the earth's surface, using quartz Sextensometers SOURCE: AN EstSSR. Institut fiziki i astronomii. Sovremennyye dvizheniya zemnoy kory. Recent crustal movements, no. 2, 1965. 376-381 TOPIC TAGS: crustel merement, horizontal crustal movement, geophysic instrument, seismologic instrument, FARTH CRUST, TECTONICS, SEISMOLDEY ABSTRACT: Since 1961 systematic observations of slow horizontal movements of the earth's surface have been conducted with a quartz extensometer (deformograph) at the Talgar geophysical station (near Alma-Ata). The instrumentation makes it possible to measure relative displacements of points on the earth's surface, horizontally scattered at 25 m (base of the instrument). The instrument is used for registration of contemporary tectonic movements, long-period seismic oscillations, tidal movements of the earth's crust, and movements caused by meteorological factors. The instrument is installed in a Card 1/2 UDC: 550.342

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ACC NR: AT6011163 passage running in a meridional direction. The bar of the instrument consists of quartz tubes, connected by invarsleeves. One end of the bar is rigidly fastened to the rock (cemented at the base), the other end is free-moving. The motions of the free end of the bar are recorded twice: by direct registration and by remote photoelectric registration. A roller between the bar and the top of the base serve as the displacement sensor. The threshold value of registered displacements is 0.05  $\mu_{\rm e}$ Maximum rock displacements over a 3-yr period (October 1961-June 1964) were 30  $\mu$ . During the first three months the deformation was greater than in following months because the supporting bases had yet to become stabilized. Residual deformation for the 3 yr was 3 µ. Seasonal deformation with an amplitude of 1 µ was noted. A change in the sign of deformation was registered before the Aleutian earthquake of 29 March 1964. Soon after the earthquake the sign changed again. There is no adequate explanation for the relationship between these phenomena. direct relationship was detected between the rate of rock deformation and the moments at which nearby earthquakes occurred. The elastic constants of the earth, the Love number h and Shida (Japan) number were computed.as:0.36 and 0.05, respectively, on the basis of horizontal tidal-deformations. :: As compared with the data of gravimetric and tiltmeter observations, h is lower by 30-40%; this can be explained by the fact that the instrument was near the surface of the ground.

SUB CODE: 08/ SUBN DATE: none/ ORIG REF: 002/ OTH REF: 003

Cord 2/2 111

L 34985-66 EWT(1) ACC NR: AP6026256 SOURCE CODE: UR/0387/66/000/005/0033/0042 AUTHOR: Savarenskiy, Ye. F. (Doctor of physicomathematical sciences); Nersesov, I. L.; Karmaleyeva, R. M.; Latynina, L. A. ORG: Institute of Physics of the Earth, AN SSSR (Institut fiziki Zomli AN SSSR) TITIE: Long-period waves of the Aleutian earthquake of 4 February 1965 recorded by quartz extensometers SOURCE: AN SSSR. Izvestiya. Fizika zemli, no. 5, 1966, 33-42 Ė TOPIC TAGS: earthquake, Rayleigh wave, internal friction ABSTRACT: This paper gives an analysis of long-period oscillations from the earthquake of 4 February 1965 which occurred in the Aleutian Islands. The tremor (M = 8.5) was recorded by extensometers at Talgar (Kazakh SSR) and Dzherino (Tadzhik SSR). It was possible to detect groups of Love waves from the 2d to 9th order with periods from 70 to 720 sec and groups of Rayleigh waves from the 2d to 13th order with periods of 120-330 sec. The dispersion curves of the group velocities of these waves were obtained. The authors determined the amplitudes of the displacements in the R and L waves, the coefficients of decrease of the amplitudes  $\gamma$  and the parameter Q, characterizing internal friction in the earth. The value Q agrees with the data obtained by other authors. The values Q, determined from Love waves, vary from 60 to 120 when T = 300-500; the values Q for Rayleigh' waves vary in the range 150-200 when T = 200. Orig. art. has: 7 figures, 7 formulas, and 3 tables. [JPRS: 36,553] SUB CODE: 08 SUEM DATE: 03Aug65 OTH REF: 1804

L 62220-65 ENT(1)/EWG(v) Po-4/Pe-5/Pq-4/Pg-4 GN

ACCESSION WR: AP5017165 UR/0387/65/000/002/0075/0079
525.6 334

AUTHORS: Balavadze, B. K.; Karmaleyeva, R. M.; Kartvelishvili, K. Z.; Latynina, C. L. K.

TITLE: Observations on tidal deformations of the earth by means of a horizontal extensometer in Tbilisi

SOURCE: AN SSSR. Izvestiya. Fizika zemli, no. 2, 1965, 75-79

TOPIC TAGS: tide, earth figure, deformation meter, quartz

ABSTRACT: Two large quartz extensometers were set up in the underground observatory of the Institut geofiziki Gruzinskoy AN (Geophysical Institute of the Georgian Academy of Sciences) in Tbilisi in 1962. The tunnel (100 m long) in which the instruments were placed is in tuffaceous sandstone and mudstone, and is lined with a layer of concrete 30-40 cm thick. One extensometer) with a 41-m base, is set up 40 m from the tunnel entrance. Its sensitivity is 0,22-10-8 mm, and it is oriented N 500° E. The other instrument, with a 14-5-m base, is set up 70 m from the entrance. Its sensitivity is 0,7-10-8 mm, and it is oriented the displacement of two fixed points on the earth's surface, the distance between Card 1/2

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ACCESSION NR: AP5017165

the points being the instrumental bass. Connection with the ground is made through rigid rods (tubes of transparent quartz glass, 3 w. long, 40 mm in diameter, and with wails 2-3 mm thick). A continuous record was obtained from only the N 30° w instrument because of moisture damage to the other. For June-September 1963 this instrument showed a tidal displacement amounting to 3.5.10-8 mm. The durations of the fluctuations were subjected to harmonic analysis to isolate the tidal component. The ratio of elastic constants (Love number to Shida number) was found to be 6.6. Assuming the first to be 0.5-0.6, the second would then be 0.08-0.09, a value that is in good agreement with other authors. The value of the Love number, computed separately, is found to be lower than that given by gravimetric data and inclinometer measurements. It is possible that the variation may be due to local peculiarities in deformation. Orig. art. has: 2 figures, 2 tables, and 8 formulas.

ASSOCIATION: Akademiya nauk SSSR, Institut fiziki Zemli (Academy of Sciences SSSR, Institute of Physics of the Earth)

SUBMITTED: 04May64

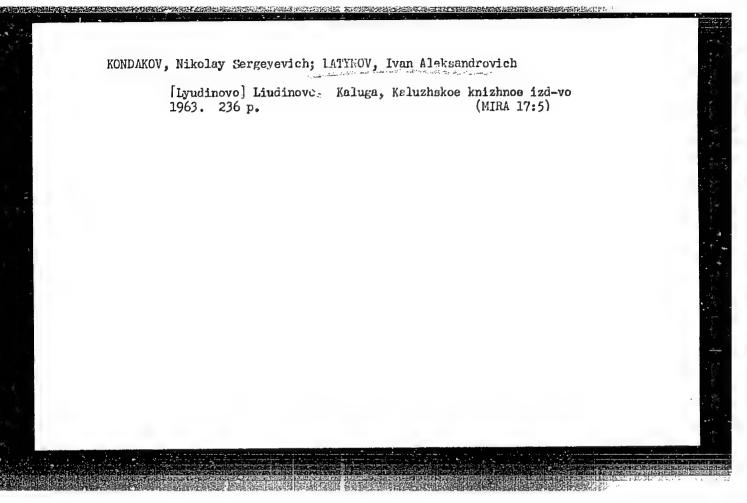
ENCL: 00

SUB CODE: ES. ME

NO REF SOV: 003

OTHER: 002

Cord 2/2



LATYNTSEV, M.P., inzh.

Glass facing tile. Za indus.Riaz. no.2:58-59 D '61. (MIRA 16:10)

1. Stroitel'noye upravleniye No.24 tresta "Ryazan'zhilstroy".

LATYNTSEVA, N.

AUTHOR:

None Given

27-2-19/19

TITLE:

Information (Informatsiya)

PERIODICAL:

Professional 'no-Tekhnicheskoye Obrazovaniye, 1958, # 2,

(153) pp 32-33 (USSR)

ABSTRACT:

B.Kopilev, the Deputy Director for Cultural Education Work writes of the 25th anniversary of the Stepanetsk Agricultural Mechanization School in Cherkasskaya Oblast' (Stepanetskows uchilishche mekhanizatsii sel'skogo khozyaystva, Cherkasskaya Oblast). ). During these 25 years the school has graduated about 10,000 specialists in agricultural mechanization.

P.Khazov, Senior Inspector of the Aktyubinskaya Oblast' Labor Reserves Administration writes of the activites of the Aktyubinsk Oblast' Labor Reserves School for Agricultural Mechanization (Uchilishche mekhanizatsii sel'skogo khozyastva Aktyubinskogo oblastnogo upravleniya trudovykh

rezervov)

V. Yatsenko and A. Sapozhnikov tell how the students of the Trade School No 39 in Sverdlovsk (Remeslennoye uchilishche No 39 g. Sverdlovska) spend their free time at different

Card 1/2

clubs and sports sections.

Information

27-2-19/19

N.Latyntseva reports on the Agricultural Exhibition in Chimkent in which the school institutions of the Labor Reserves in Southern-Kazakhstanskaya Oblast! (Uchebnyye zavedeniya trudovykh rezervov Yuzhno-Kazakhstanskoy oblasti) took part.

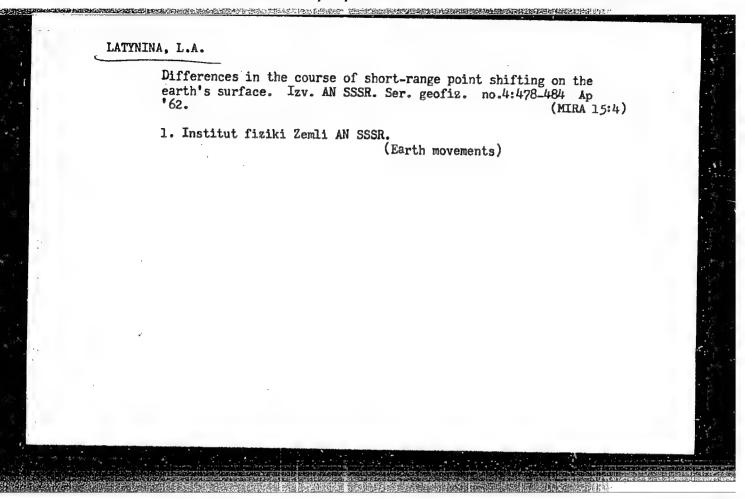
General information is given on the publication of a new symposium, "With One's Own Hands" ("Svoimi rukami"). Published by Trudrezervizdat in 1957, it contains descriptions of models and designs in the fields of photography, electricity, radio engineering, model airplane flying and motor acquatics.

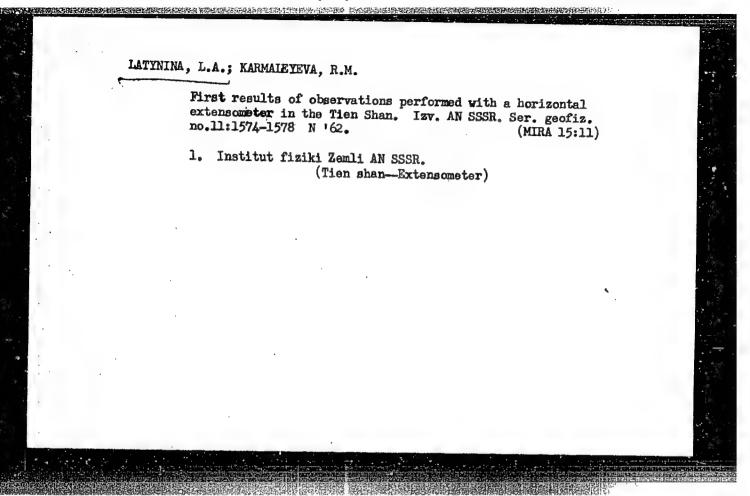
There are 4 photographs.

AVAILABLE:

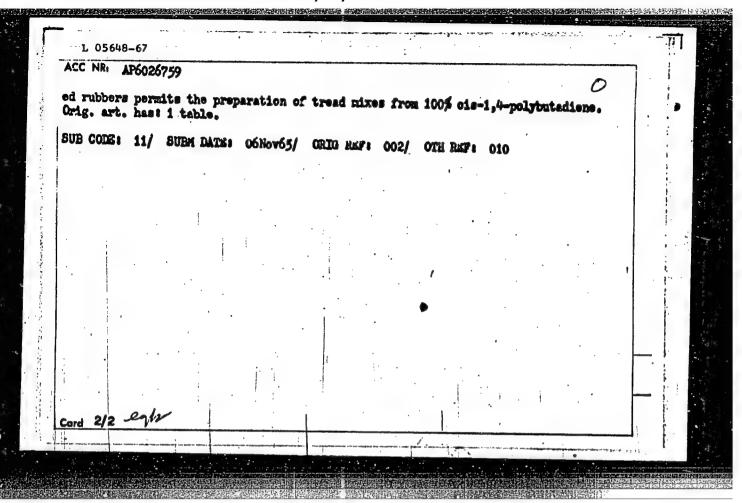
Library of Congress

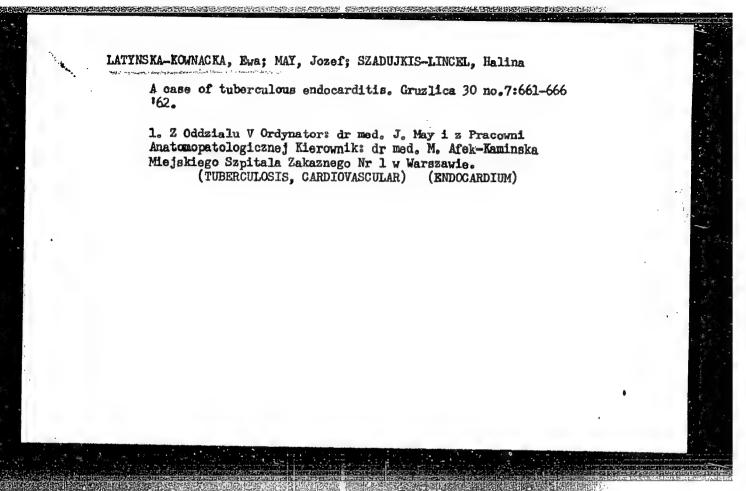
Card 2/2

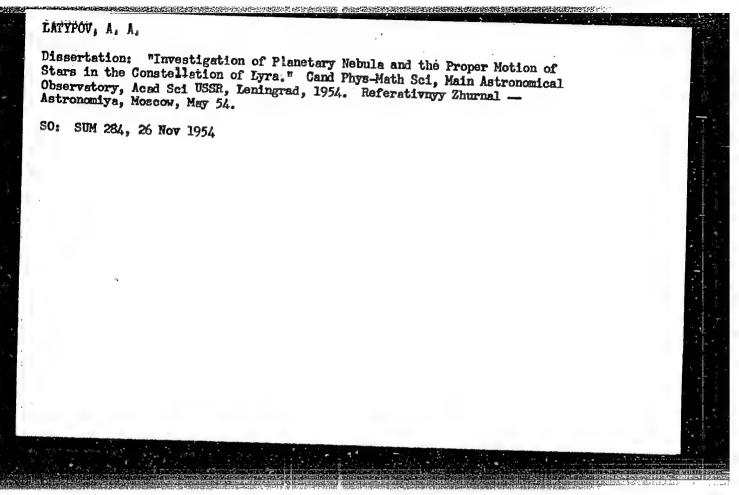


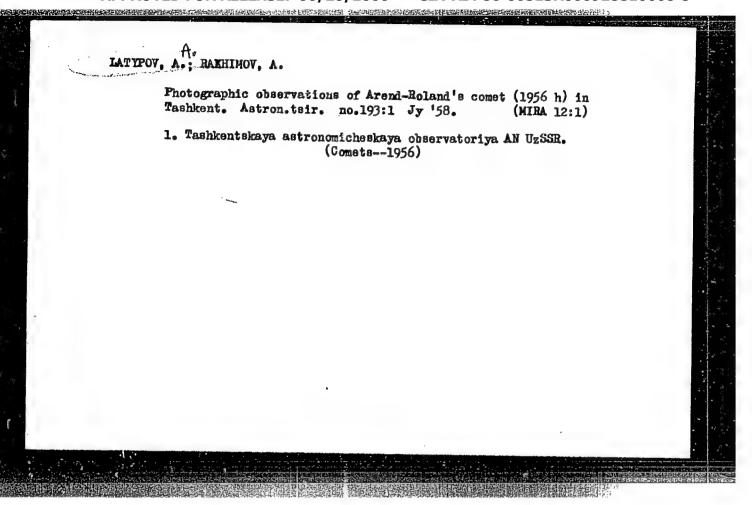


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own yoronezh syn	thetic Rubber Plant t (Voronezhakiy shim	· Voronapholder zawad	sinteticheskogo kauchuk	(a) j	1
TITLE: Oil-extende	ed stereoregular cis	-1,4-butadiene rubbe	or 15		
SOURCE: Kauchuk 1	rezina, no. 5, 1966,	, 3-4			100
* 1. *	utadione, filler, pla		ition		
ABSTRACT: The cond	litions of meneration	n of all-ordered a		d the	
rubber mix and vulc	canizates were studie	courting the Lucbel 1	nd the properties of the	0	- 45
special tread mix of	of the composition (4	of the oil-extend	ed rubbers were studied	in a	
their millability.	The treed wires	me workedility of t	he mixes was determined	from	
troducing the oil a	t the solution stage	displayed a better	Workability than those	pre-	
propagation were al	so higher. It is co	heir tensile strong	Morkability than those th and resistance to ora od workability of oil-ex	ick	100
			and the second s	tend-	
	,	ma. (20 m/a a	CALLE FOOT HALL AN		260
Cord 1/2		ULU 0/0./02.2	LTUUDA 303/44XIII4.12		
Cord 1/2	سندن الدرانية المحاود ويرسفه والماسية بالماسية	UDC: 678.762.2			**
Card 1/2	Annual the program of the second section of the second	00:1 6/3-/62-2	WO20-2011-94-12		







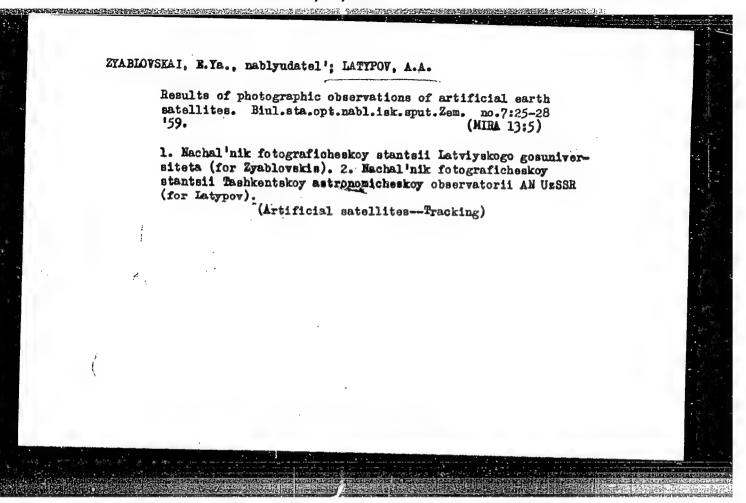


SENTSOVA, Yu.Ye., mladshiy nauchnyy sotrudnik; LATYPOV, A.A.; BARKHATOVA, K.A.; TORAO, M.;

Results of photographic observations of artificial earth satellites. Biul.sta.opt.nabl.isk.sput.Zem. no.4:18-23
159. (MIRA 13:6)

1. Astronomicheskiy Sevet AN SSSR (for Sentsova). 2. Nachal'nik fotograficheskoy stantsii iskusstvennykh sputnikov Zemli. Tashkenetkoy astronomicheskoy observatorii AN UzSSR (for Latypov). 3. Rukovoditel' Astronomicheskoy observatorii Ural'eskogo gosuniversiteta (for Barkhatova). 4. Sotrudnik Astronomicheskoy Mitaka bliz Tokio (for Torao).

(Artificial satellites—Tracking)



NEVEL'SKIY, A.V., mladshiy nauchnyy sotrudnik; BRATIYCHUK, M.V.; SAVRUKHIN, A.P.; MOZEZHERIN, V.M.; LATYPOV, A.A.; CHUPRINA, R.I., mladshiy nauchnyy sotrudnik

Results of photographic observations of artificial earth satellites. Biul.sta.opt.nabl.isk.sput.Zem. no.8:17-24 '59. (MIRA 13:6)

1. Astrosovet AN SSSR (for Nevel'skiy). 2. Nachal'nik stantsii opticheskikh nablymeniy Uzhgorodskogo gosuniversiteta (for Bratiychuk). 3. Nachal'nik stantsii fotonablyudeniy iskusstvennykh sputnikov Zemli pri Instantsii nablyudeniya sputnikov Krymskoy astrofizicheskoy observatorii (for Mozhzherin). 5. Nachal'nik fotograficheskoy stantsii Tashkentskoy astronomicheskoy observatorii AN UzSSR (for Latypov). 6. Astrosovet AN SSSR (for Chuprina).

(Artificial satellites-Tracking)

KISELEVA, T.P.; FEDCHUH, M.S.; LATYPOV, A.A.; BABADZHANOV, P.B.; RUSSO, Yu.D.: CHUPRINA, R.I., nauchnyy sotrudnik Results of photographic observations of artificial earth satellites. Biul.sta.opt.nabl.isk.sput.Zem. no.9:16-24 159. (MIRA 13:3) 1. Glavnaya (Pulkovskaya ) Astronomicheskaya observatoriya AN (SSSR (for Kiseleva). 2. Glavnaya Astronomicheskaya observatoriya AN USSR, Kiyev, nachal nik stantsii nablyudeniy (for Fedchun). 3. Tashkentskaya astronomicheskaya observatoriya AN UsSSR, nachal'nik fotograficheskoy stantsii (for Latypov). 4. Institut astrofiziki AN Tadzhikskoy SSR, Stalinabad, nachal'nik stantsii fotonablyudeniy iskusstvennogo sputnika Zemli (for Babadzhanov). 5. Odesskaya astronomicheskaya observatoriya, nachal'nik stantsii nablyudeniy iskusstvennogo sputnika Zemli (for Russo). 6. Astrosovet AN SSSR (for Chuprina). (Artificial satellites -- Tracking)

CATYPOU, A.A.

S/166/60/000/03/10/011 C111/C222

AUTHOR: Latypov, A.A.

TITLE: Chromatic Aberration of the Photo Objective of the Tashkent Normal

PERIODICAL: Izvestiya Akademii nauk Uzbekskoy SSR, Seriya fiziko-matematicheskikh: nauk; ... 1960, ... No. 3, .pp. 57 - 59

TEXT: While the spherical aberration, the astigmatism and the distorsion of the objective of the normal astrograph of the Tashkent Observatory have been determined in (Ref. 1,2) now the author investigates the chromatic properties of the objective. The obtained chromatic aberration is compared with the well-known data for the objectives of the astrographs in Potsdam and Pulkovo. The author mentions M.F. Subbotin, Ye.A. Kharadze, M.A. Vashakidze, I.I. Breydo, and A.A. Markelova. There is 1 figure, 1 table, and 8 references; 7 Soviet and 1 German.

ASSOCIATION: Tashkentskaya astronomicheskaya observatoriya ( Tashkent Astronomical Observatory)

SUBMITTED: February 27, 1960

Card 1/1

29574

3,1220 (1051,1114, 1057)

5/033/61/038/004/010/010

E133/E135

**AUTHORS** 8

Latypov. A.A., and Ustimenko, F.G.

TITLE

The utilization of a quartz generator and the synchronous motor from a printing chronograph as a

clock mechanism for parallactic mountings

PERIODICAL: Astronomicheskiy zhurnal, vol. 38, no. 4, 1961, 772-773

Photography with telescopes of long focal length TEXT: involves frequent positional corrections. This is due to a variety of reasons, e.g. periodic errors in the driving mechanism. The normal astrograph of the differential refraction, etc. Tashkent Astronomical Observatory (diameter 330 mm, focal length 3463 mm) was built at the end of the last century. It has the normal type of gear mechanism without a second control. It can, however, be regulated by means of a conical pendulum, but this arrangement does not seem to work very well. Therefore, the authors have tried using the mechanism of an electric chronograph (measuring time intervals to an accuracy of 0.005 sec). chronograph consists of a synchronous motor fed by a frequencystabilized current. Stabilization is by means of a quartz Card 1/3,

29574

The utilization of a quartz generator...  $\frac{S/033/61/038/004/010/010}{E133/E135}$ 

generator working at 50 c/s and 110, 127 or 220 V. The chronograph motor does 3000 r.p.m. This is reduced by four gear wheels to 60 r.p.m. and is transmitted to the worm gear. The layout is shown in Fig.1. The arrangement has been in use for six months and has been found very convenient. The telescope position only requires readjustment every 8-10 minutes now. There is 1 figure.

ASSOCIATION: Tashkentskaya astronomicheskaya observatoriya

Akademii nauk UzSSR

(Tashkent Astronomical Observatory, AS Uz.SSR)

SUBMITTED: November 23, 1960

Card 2/5/2

8/035/62/090/001/005/038 A001/A101

AUTHORS:

Fatchikhin, N. V., Latypov, A. A.

ROSENSONS AND REPORT OF THE PROPERTY OF THE PR

TITLE:

The catalog of galaxies in the declination zone from -5 to -25°, selected for determinations of absolute proper motions of stars

PERIODICAL:

Referativnyy zhurnal. Astronomiya i Geodeziya, no. 1, 1962, 37, abstract 1A317 ("Tsirkulyar Tashkentsk, astron, observ", 1959, 10,

avg., no. 302, 1-16)

The Pulkovo program of observing galaxies for determination of TEXT: absolute stellar proper motions was continued to a declination of -25°. Over 100 plates were taken in 1959 with the Tashkent astrograph for 48 centers selected in the zone from -5 to -25 in declination. 226 galaxies on these plates were analyzed to determine their suitability for precision measurements. Estimates were made according to a 10-point scale developed at Pulkovo. As a result, a catalog of 48 galaxies (no. 158 - 205) was compiled, which describes them and provides estimates of their suitability for precision measurements.

D. Karimova

[Abstracter's note: Complete translation]

Card 1/1

TREPACHEV, Ye. P.; LATYPOV, A.G.

Millet

Chemical compostion of some varieties of foxtail millet. Korm. baza 3, no. 9, 1952.

Monthly List of Bussain Accessions, Library of Congress, December 1952. Unclassified.

LATYPOV,

USSR/Soil Cultivation. Cultivation, Melioration, Erosion.

J-5

Abs Jour: Ref Zhur-Biologiya, No 1, 1958, 1290.

Author: : Ashimov, G., Latypov, A. G.

Inst

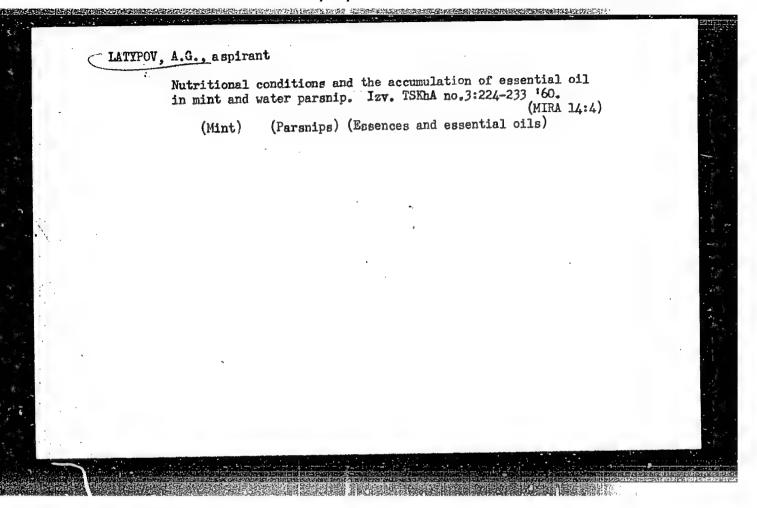
Title

: Treatment of Soil According to T.S. Mal'tsev's method (results of two years of experiments).

Orig Pub: S. kh. Bashkirii, 1956, No 12, 14-17.

Abstract: Data acquired on the Sterlitameksiy, Birskiy, and Ufimskiy test plots of Bashkiria, as well as production experiments in kolk-hozes (1955 and 1956), indicate that deep plowing, without the moldboard of leached and rich chernozens and gray forest soils increases the yields of winter rye and spring wheat by 4-5 centners/hectare over ordinary plowing with the moldboard. A significant decline in the yield of the first crop was noted on the friable carbonate chernozems of the arid regions of the Republic.

Card : 1/1



## LATYPOV, A.L., kand.med.nauk

Split bed board for spinal traction. Ortrop.travm.i protez. 21 no.3:53-55 Mr '60. (MIRA 14:3)

l. Iz kafedry ortopedii i travmatologii (zav. - zacluzh.deyatel' nauki prof. L.I.Shulutko) Kazanskogo instituta usovershenstvovaniya vrachey).

(ORTHOPEDIC APPARATUS)

LATYPOV, A. L., kand. med. nauk.

Some problems in correcting scoliosis by the traction method. Ortop., travm. i protez. no.11:19-21 61. MIRA 14:12)

l. Iz kafedry ortopedii i travmatologii (zav. - prof. L. I. Shulutko) Kazanskogo instituta usovershenstvovaniya vrachey.

(SPINE\_ABNORMITIES AND DEFORMITIES)

# LATYPOV, A.L., kand.med.nauk

Pathogenesis of mottled osteoporosis. Kaz.med. zhur. no.2: 50-52 Mr-Ap 63 (MIRA 16:11)

**的是某种的复数形式的**现代,并不是不是有的的影响。这个是否的影响,就是这种是一种,我们就是一种,我们就是一种,我们就是一种,我们就是一种,我们就是一种,我们就是

l. Kafedra ortopedii i travmatologii (zav. - prof. L.I.Shulutko) Kazanskogo gosudarstvennogo instituta dlya usovershenstvovaniya vrachey imeni Lenina i laboratoriya elektrofiziologii Kazanskogo instituta ortopedii i travmatologii.

LATYPOV, A.L., kand. med. nauk (Kazan' 39, Froizvodstvennaya ul.,

d.4, kv.50)

Late results of the conservative treatment of congenital hip
dislocation. Ortop. travm. 1 protez. 24 no.5:30-33 My 163.
(MIRA 17:9)

1. Iz kafedry ortopediii travmatologii (zav.- prof. L.I. Shulutko)
Kazanakogo instituta usovershenstvovaniya vrachey na baze Kazanskogo instituta travmatologii i ortopedii (dir.- kand. med.
nauk U.Ya. Bogdenovich).

LATYPOV, A. Sh.

Oilseed Plants

Effect of deep plowing on the yield of crambe hispanica. Sov. agron. 10 no. 7, 1952.

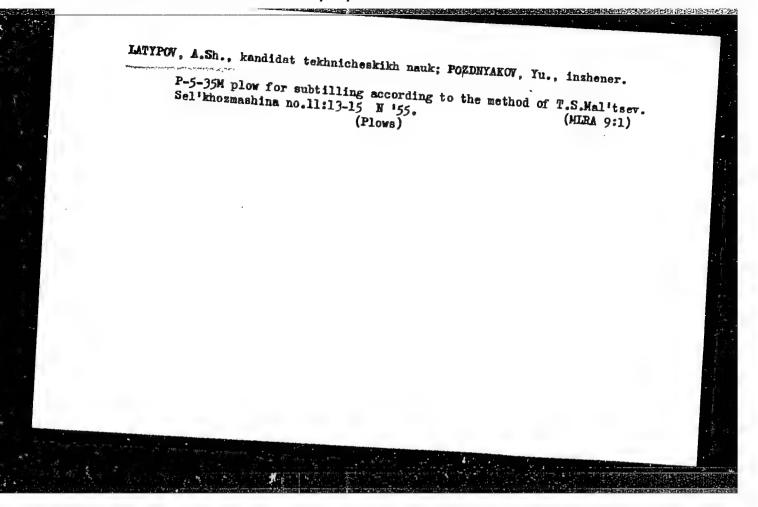
Monthly List of Russian Accessions, Library of Congress, Sept. 1952. Unclassified

- 1. LATYPOV, A. Sh.
- USSR 600
- Plowing
- Rffect of plowing depth on weediness of soil, Dok. Ak. sel'khoz, 18, No. 11, 1952.

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

- 1. LATYPOV, A. Sh.
- USSR 600
- Plowing
- Consequence of deep plowing for the yield of farm crops, Sov. agron, 11, No. 2, 1953.

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.



LATYPOV, A. Z.

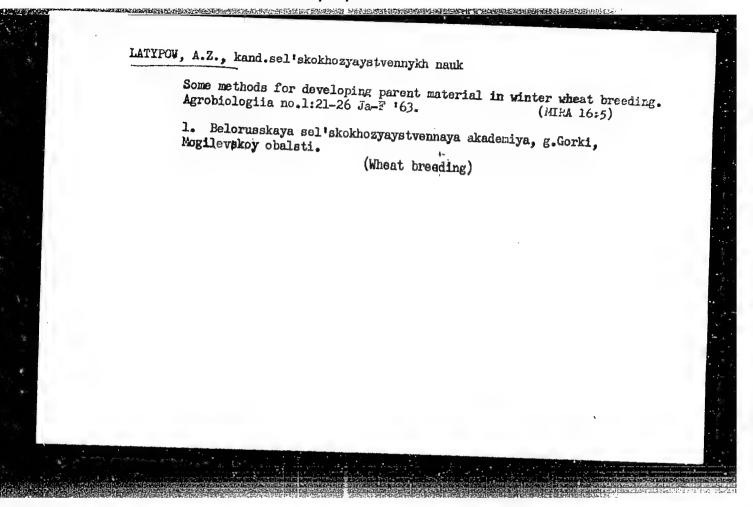
Latypov, A. Z. -- "Variance in the Quality of Seeds of Oats Depending on the Conditions under which they were Raised." Moscow Order of Lenin Agricultural Acad imeni K. A. Timiryazev, Moscow, 1955 (Dissertation for the Degree of Candidate in Agricultural Sciences)

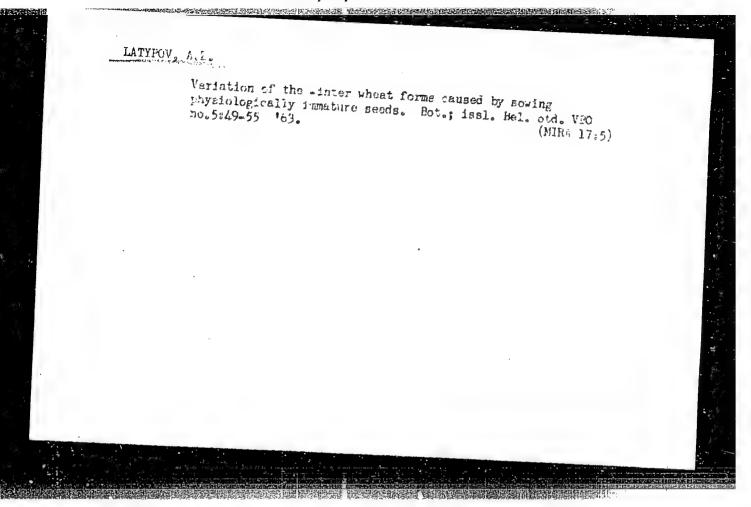
SO: Knizhnaya Letopis!, No. 23, Moscow, Jun 55, pp 87-104

LATYPOV, A.Z., kand. sel'khoz. nauk

Features of transforming spring wheat into winter wheat.
Agrobiologiia no.5:689-696 S-0 '61. (MIRA 14:10)

1. Belorusskaya sel'skokhozyaystvennaya akademiya, g. Gorki,
Mogilevskoy oblasti.
(Wheat)





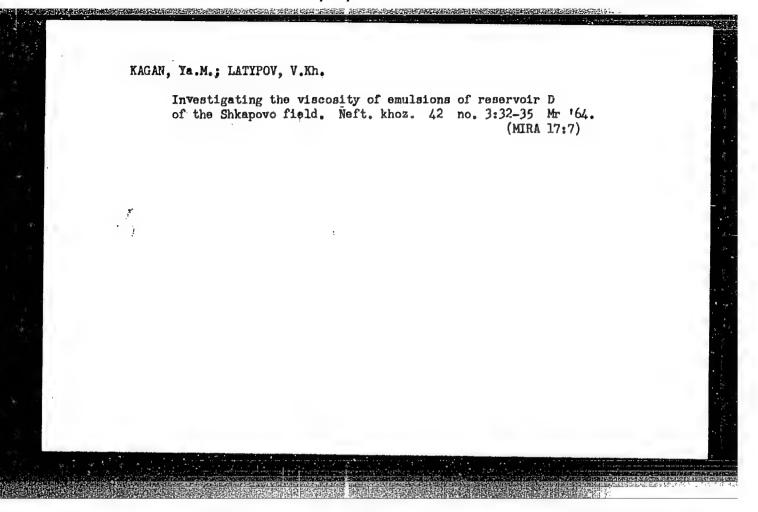
SHIROKOV, A.A.; LATYPOV, E.A

It pays to drill small diameter wells. Heftianik 5 no.6:7-8 Je
'50.

(MIRA 13:7)

1. Starshiy inzhener prozvodstvenno-tekhniche skogo otdela kontory
burentya Ho.4 tresta Tuymazaburneft' (for Shirokov). 2. Starshiy
'inzhener planovogo otdela Kontory bureniya Ho.4 tresta Tuymazaburnef' (for latypov).

(Tuymazy region (Bashkiria)—Oil well drilling)



GROMAKOV, S.D.; KURINNAYA, V.N.; LATYFOV, Z.M.; CHVALA, M.A.

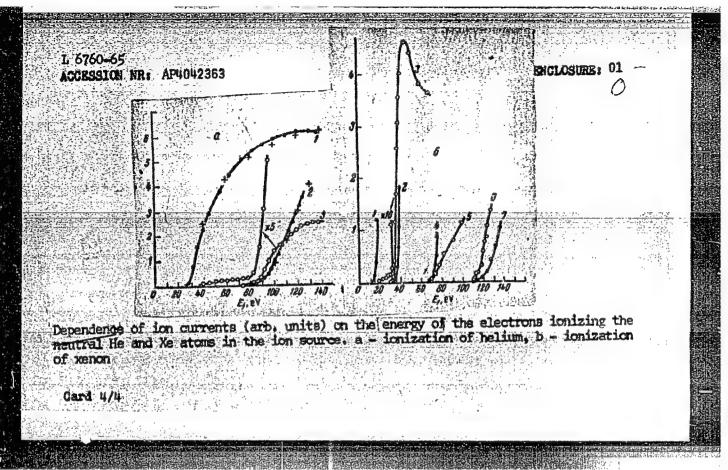
New variant of the zone purification of substances. Zhur.
neorg. khim. 9 no.5:1305-1306 My '64. (MIRA 17:9)

1. Kazanskiy gosudarstvennyy universitet i Penzenskiy pedagodicheskiy institut.

ACCESSION NR: AP4042363	S/0056/64/047/001/0021/0023
AUTHORS: Kupriyanov, S. Ye.; 1	
TITLE: Long-lived highly excit	76
SOURCE: Zh. eksper. i teor. fi	z., y. 47, no. 1, 1964, 21-23
TOPIC TAGE: ionization, stripp excitation spectrum, mass spect	ped atom, helium, xenon, excited state, crometry
	are presented on stripping and ioni- (e) ions near a metallic surface, with
an aim at proving the existence	of highly excited long-lived states
is demonstrated that these stat	Xe <sup>†</sup> , Eg <sup>†</sup> , Kr <sup>2†</sup> , Xe <sup>2†</sup> , and Xe <sup>3†</sup> . It
the continuous spectrum. The v	work was done with a double mass spec-

<b>非关系的现在分词标准</b> 在	R: AP4042363			7
N. N. Tunita excited state pact" method	kiy, ZhETF'y. 46, es of the ions wer whereby ionization	833, 1964). The le observed by usin	long-lived highly- ng the "second im- one of three mechan	2
isms:		" YO DIDNICED DA S	one of three mechan	
	A*+ 4	$e \to A^{(0+1)+} + 2e_1^{(1)}$ $+ A^{(0+1)+} + A^{(1)} + e_1^{(1)}$ $+ A^{(0+1)+} + e_1^{(1)}$	et en	
	<b>*</b>	Vator + e		13,542
in satisfact vances in Ma fessor N. N.	confirm and suppler riyanov and Laty*pory ory agreement with	ment earlier data by, ZhETF v. 43, 8 the data obtained	by two of the 15, 1963). They a by R. E. Fox (Ad- am grateful to Pro- esults." Orig. ar	1 .
			Ya. Karpova (Phys	
Card 2/4			·	'

L 6760-65 ACCESSION N	IR: AP4042363			Secretary Control of the Control of	
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美国的高级对象,但1985年的人,1987年在1986年的1987年中的中国企业,在1985年的1987年的1986年的1988年的1986年的1986年的1986年的1986年的1986年的1986年的1986年的19

ACCESSION NR: AP4042368

s/0056/64/047/001/0052/0060

AUTHORS: Kupriyanov, S. Ye.; Laty\*pov, Z.Z.

TITLE: Detection of long-lived excited ions of the noble gases and mercury

SOURCE: Zh. eksper. i teor. fiz., v. 47, no. 1, 1964, 52-60

TOPIC TAGS: ionization, helium, xenon, krypton, argon, mercury, excited state, excitation spectrum, mass spectrometry

ABSTRACT: This is a companion to a paper by the authors (with A. A. Perov, ZhETF, 47, 21, 1964); Accession Nr. AP4042363), and is devoted to the production of singly, doubly, and triply charged long-lived highly excited ions, and also some metastable ions, by ionization of atoms of noble gases (Xe, Kr, Ar, Ne) and mercury with electrons. Only singly-charged excited ions were produced in the case of helium. The lifetimes were  $\geq 10^{-6}$  sec. The investigations were car-

Card 1/4

ACCESSION NR: AP4042368

ried in crossed ion and electron beams in a double mass spectrometer with electron gun between two magnetic mass analyzers. The method is described elsewhere (Kupriyanov and Laty\*pov, ZhETF v. 45, 815, 1963; Laty\*pov, Kupriyanov, and N. N. Tunitskiy, ZhETF v. 46, 833, 1964). The excitation energy of the ions was determined by the method of secondary ionization of these ions. It is concluded from the potentials for the production of these ions that the excited ions are produced in states close to the states of their subsequent ionization. Orig. art. has: 4 formulas, 5 figures, and 1 table.

ASSOCIATION: Fiziko-khimicheskiy institut im. L. Ya. Karpova (Physicochemical Institute)

SUBMITTED: 03Feb64

ENCL: 02

SUB CODE: NP

NR REF SOV: 007

OTHER: 009

Card 2/4

ACCESSION NR: AP4042368

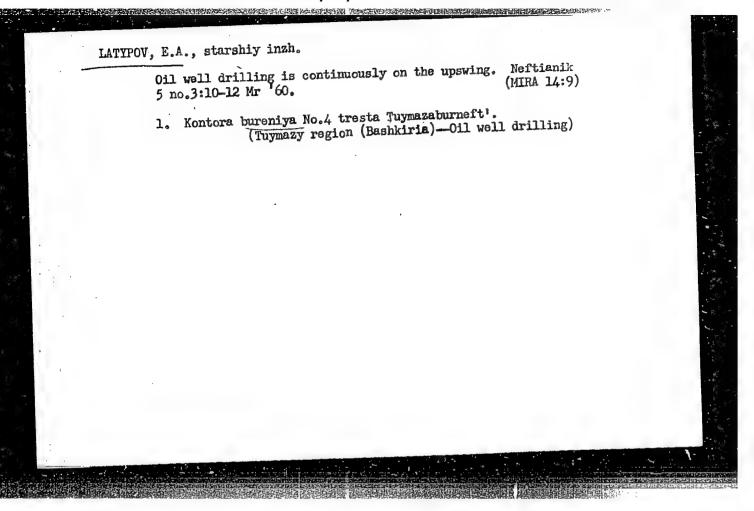
ENCLOSURE: Ol

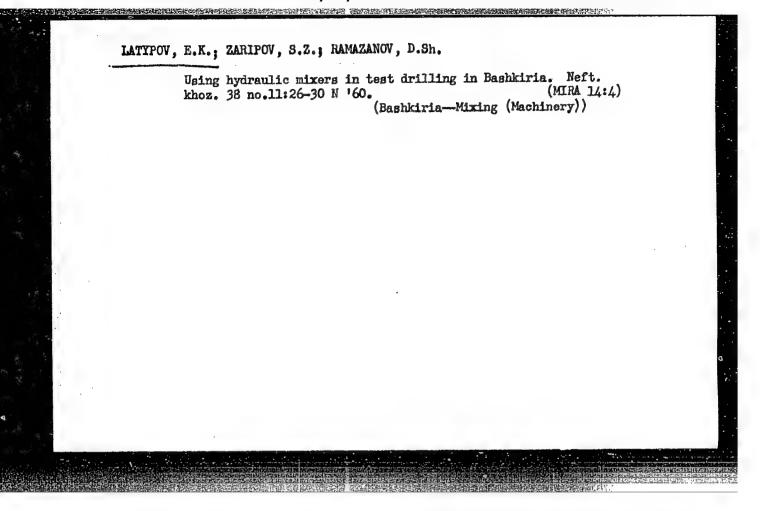
Energies of ground and metastable states of ions and experimental potentials for the production of excited ions, in eV\*

C'					
	11g+	Χéŧ	Kr+	.Ar‡	
Ground states Основные состояния в метастабильные состояния В метастабильные состояния в метастабильные состояния	10,43	12,13 23,96 24,38 24,45 26,37	14,00 28,00 29,62 29,86 30,39	15,70 32,16 33,38 33,45 34,25	
Основные состояния $B^{(n+1)+}$	29,18	33,34 33	38,50 38	43,38 43	-

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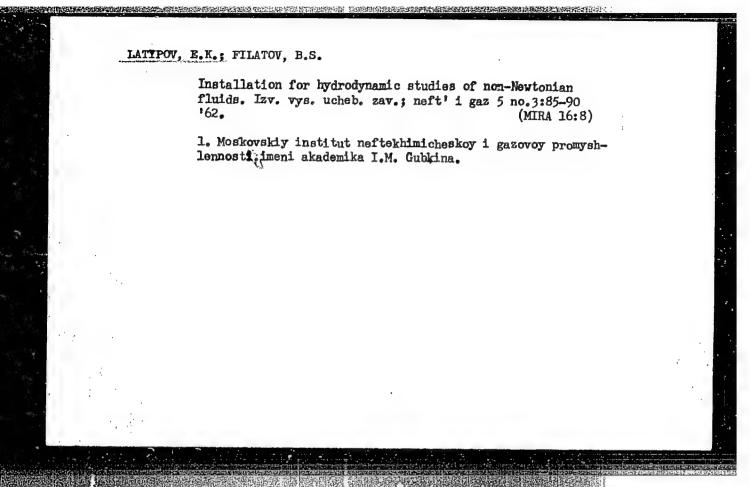


## LATYPOV, E.K.

Effect of temperature and thermal processing on the flow properties of clay muds. Izv. vys. ucheb. zav.; neft' i gaz 4 no.9:33-39 '61. (MIRA 14:12)

1. Moskovskiy institut neftekhimicheskoy i gazovoy promyshlennosti imeni akademika I.M. Gubkina.

(Oil well drilling fluids)



RAKHIMKULOV, R.Sh.; LATYPOV, E.K.

Determination of hydraulic resistances in drilling fluid flows through pipes. Izv. vys. ucheb. zav.; neft' i gaz 6 no.10:63-69 '63. (MIRA 17:3)

1. Ufimskiy neftyanoy institut i Ufimskiy nauchno-issledovatel'skiy institut.

YANCVSKIY, S.M., dotsent; LATYPOV, K.L.

Case of perforating ulcer of the duodenum located at the site of the transition of its vertical section to the lower horizontal.

Med. zhur. Uzb. no.4:51 Ap '61. (MIRA 14:5)

1. Iz Denauskoy gorodskoy bol'nitsy Surkhandar'inskoy oblasti UzSSR.

(DUCDENUM\_ULCERS)

Receiving Sibay Dist Jl 160.	grain directly from the combine rict in Bashkiria. Hukelev.p.	on virgin lands of rom. 26 no.7:4-5 (MIRA 13:8)
	r Sibayskogo khlebopriyemnogo p (Sibay DistrictGrain)	
		•

MASIOV, L.S.; LAMYPOV, M.Z.; LYALIN, V.A.; ORABOVSKAYA, S.I.

Fring paper-cardboard containers for parkinging termical lubricants and grease. Transp. i khran. nefti i matterroi. no.10:28-30 \*64. (RIRA 17:12)

1. Nauchno-isaledovateltskiy institut po transportu i khraneniyu nefti i nefteproduktov.

Characteristics of the mineralogical composition of fragmental rock material from the Stalinogorek horizon in the eastern part of the Russian Flatform. Dokl. AN SSSR 142 no.2:419-421 ja 162. (MIRA 15:2)

1. Geologicheskiy institut Kazanskogo filiala AN SSSR. Predstavleno akademikom N.M.Strakhovym. (Russian Flatform—Minerals)

GERASIMOVA, Ye.T.; KUZNETSOV, A.V.; IA TYPOV, N.G.

Lithological and mineralogical characterization of argillaceous rocks of a Lower Carboniferous terrigenous layer of the eastern Russian Platform. Dokl. AN SSSR 151 no.2:419-421 Jl '63. (MIRA 16:7)

1. Geologicheskiy institut Kazanskogo filiala AN SSSR. Predstavleno akademikom N.M.Strakhovym.

(Russian Platform—Clay)

## GERASIMOVA, Ye.T.; LATYPOV, N.G.

Characteristics of the mineral composition of the detrital material of the Lower Carboniferous terrigenous rocks in the Volga-Ural region. Dokl. AN SSSR 164 no.1:183-186 S '65. (MIRA 18:9)

1. Geologicheskiy institut, Kazan'. Submitted May 25, 1965.

1.4139.45 E:M(a)/EMC(a)/T Pr-4 DJ 8/005/63/000/005/0018/0022
RECESSION R: AP3000501

AUMIGN: Sedachev, V. M.; Heumelov, V. V.; Moyseyeva, A. S.; Lebedeva, N. M.; Munntnova, I. M.; Latyrov, R. Sh.; Terpilovakiy, H. N.; Maninov, O. V.

TITIE: Oxidation of paraffin in the foam state

SOURCE: Khimiya i tekhnologiya topliv i masel, no. 5, 1963, 18-22

TOFIC TACS: synthetic lubricant, continuous oxidation, bubble column, paraffin fraction, paraffin oxidation

ABSTRACT: The Kazan' Synthetic Lubricant Plant in cooperation with the Kazan'
Institute of Chemical Technology, has developed a new process for exading highly foancd paraffin up to carboxylic acids. This continuous process was adopted on a pillot-plant scale in 1961. The new continuous forces are used to the processing up to 270% as compared with the previous process. The author given the processing data and diagrams of equipment used, as well as a "orealcon" of the paraffic fractions and their specifications. The basic operating parameters are: temperature, 125 - 130°(2) air consumption, 1 m<sup>2</sup>/kg of condition paraffin; acid number of exidate, 50 - 60 mg of MH. In order to obtain good air dispersion, the use of screens in Card 1/2

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MESMELOV, V.V.; IEREDEVA, N.M.; LATYPOV, R.Sh.; MAMINOV, O.V.;
RYSAYEVA, L.D.

Continuous exidation of hydrocarbon raw materials in the foam state. Khim. i tekh. topl. i masel 10 no.3:23-25 Mr '65.

(MIRA 18:11)

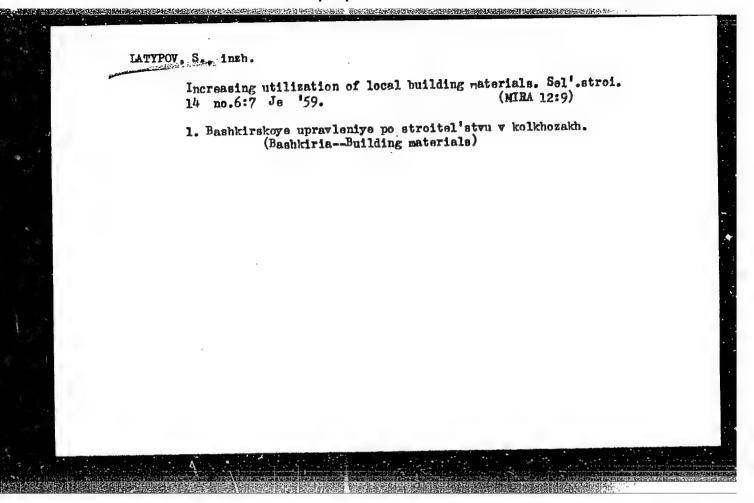
1. Kazanskiy khimiko-tekhnologicheskiy institut im. S.M. Kirove.

LEBEDEVA, N.M.; NESMELOV, V.V.; LATYPOV, R.Sh.

Experimental industrial testing of the continuous method of paraffin oxidation. Khim. i tekh. topl. i masel 10 no.7:32-35 Jl '65.

(MIRA 18:9)

1. Kazanskiy khimiko-tekhnologicheskiy institut im. S.M.Kirova.



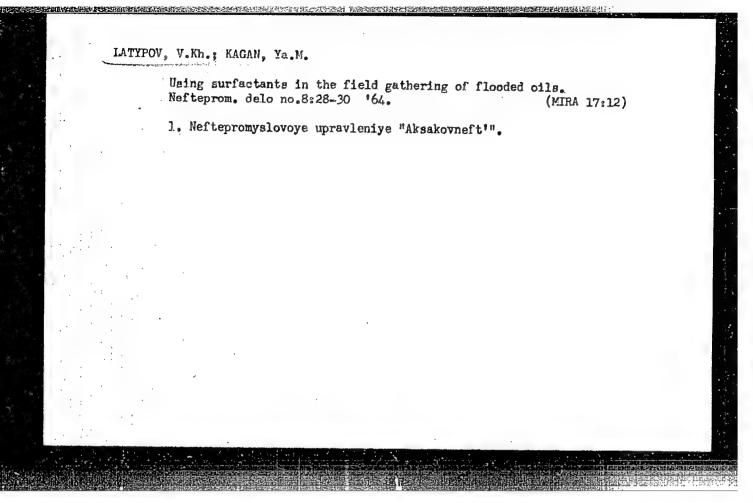
TASHMUKHAMEDOV, S.A.; TILLAYEV, R.S.; USMANOV, Kh.U.; LATYPOV, T.

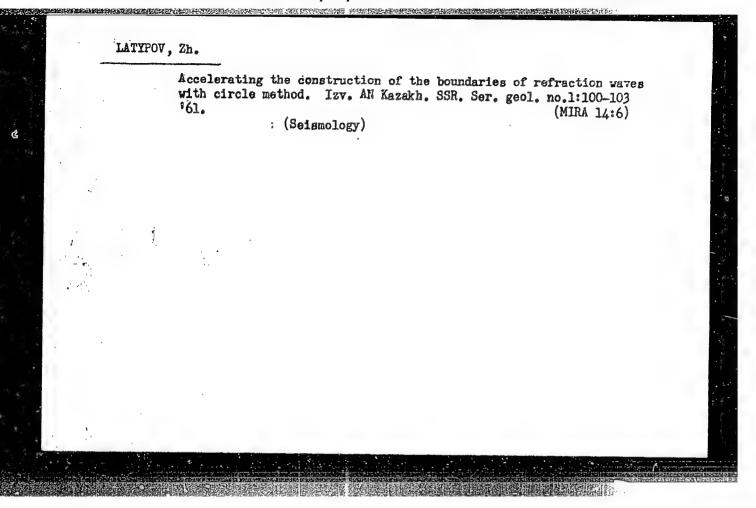
Grafting of methyl methacrylate into butyl rubber under the effect of gamma rays. Uzb. khim. zhur. 9 no.5:59-62 '65.

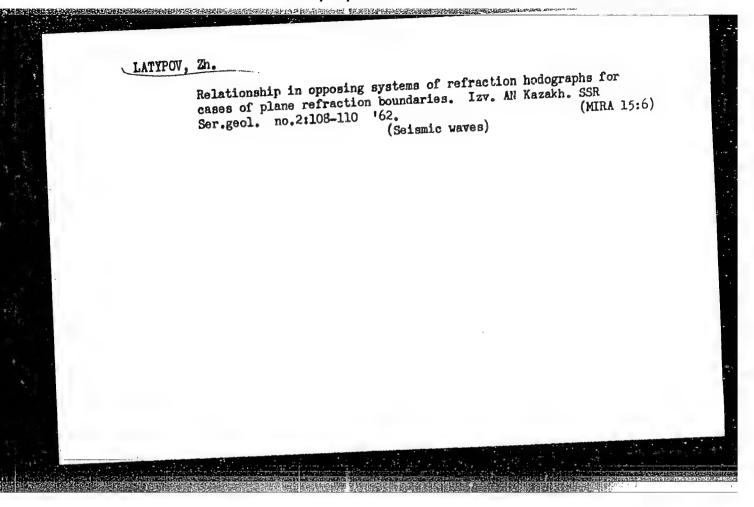
(MIRA 18:12)

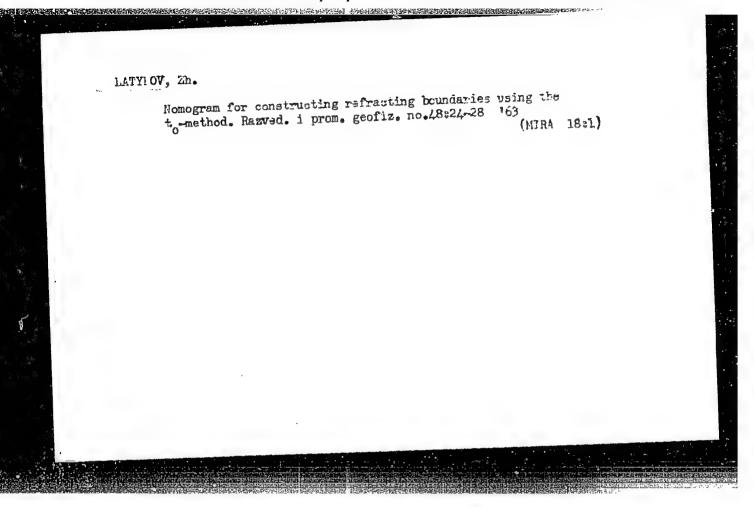
1. Tashkentskiy gosudarstvennyy universitet imeni Lenina.

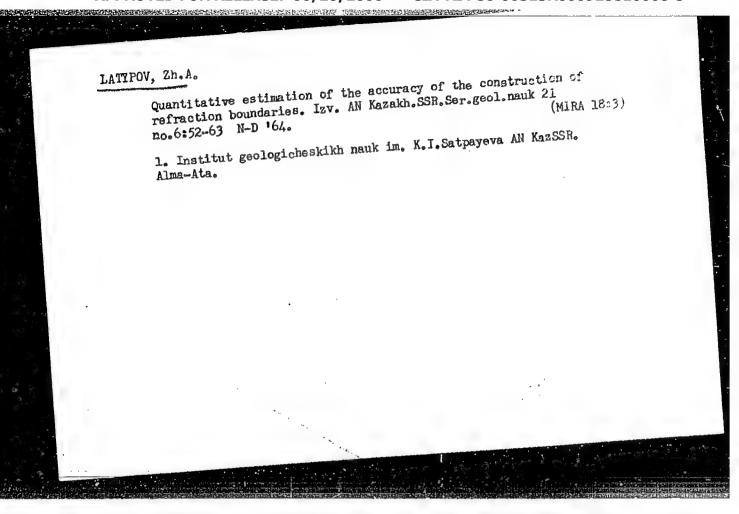
Submitted Feb. 5, 1965.

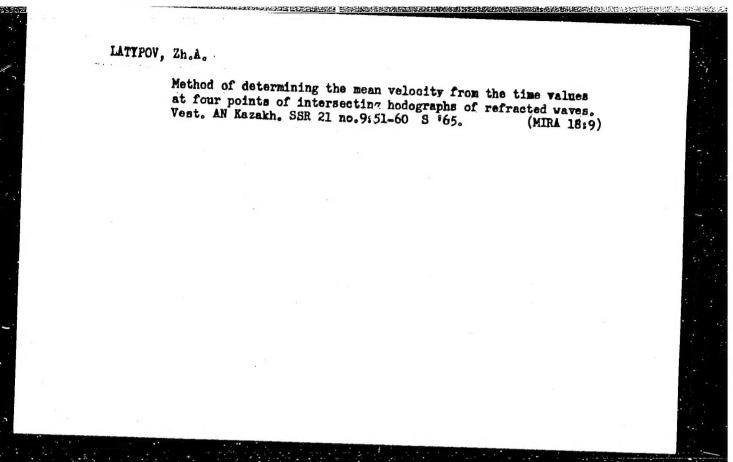


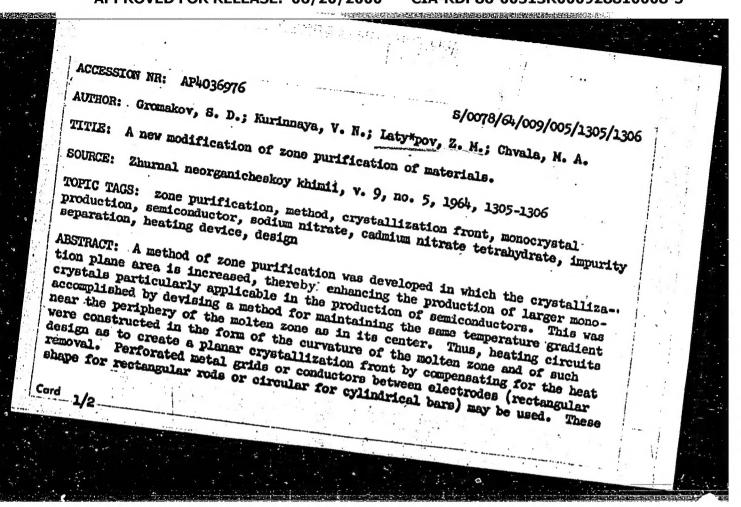












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1 16066-65 EWT(1)/EWP(e)/EPA(s)-2/EWG(k)/EVT(m)/EPF(c)/EPF(s)-2/EWG(v)/ Epa/Epa(w)-2/Elif(1///(1/2011)/Elif(1)/AFWL/ASD(a)-5 WT/AT/AM/WH. S/0078/64/009/010/2485/2487 ACCESSION NR: AP4046457 AUTHOR: Gromakov, S. D.; Zoroatskaya, I. V.; Laty\*pov, Z. M.; Chvala, M. A. Eydel'man, Ye. A.; Bady\*gina, L. TITLE: Method for investigating phase diagrams of semiconducting systems SOURCE: Zhurnal neorganicheskoy khimii, v. 9, no. 10, 1964, 2485-2487 TOPIC TAGS: semiconductor, phase diagram, semiconductor system, test apparatus design, solidus temperature, liquidus temperature -ABSTRACT: A method was developed for obtaining thermal data for semiconducting materials which avoids the inherent difficulties of air oxidation, thermal decomposition, and reaction with thermocouple and container materials. The material for thermographic investigation is placed in a quartz ampoule (3-4 mm i. d. 25-30 mm long), sealed under 1-2 mmHg. The thermocouple (fig. 1) made of  $3-5 \times 12-14$  mm platinum foil (a) with soldered platinum rhodium leads (b, c) is arranged so the platinum foil surrounds the ampoule (fig. 1-C). The ampoule is Card 1/4